WHAT IS CLAIMED IS:

- A plate-making method of a lithographic printing plate, which comprises exposing imagewise a photosensitive lithographic printing plate and developing the exposed photosensitive lithographic printing plate with developing solution, wherein the photosensitive lithographic printing plate comprises an aluminum support and a photosensitive layer comprising a photosensitive composition of photopolymerization type, the composition containing: a compound having a nitrogen atom and ethylenically unsaturated double bond: photopolymerization initiator; and a polymer binder; and the developing solution contains (1) an inorganic alkali agent and (2) a nonionic surface active agent having a polyoxyalkylene ether group.
- 2. The plate-making method of a lithographic printing plate as claimed in Claim 1, wherein the developing solution has a pH in a range of from 9 to 13.5 and an electric conductivity in a range of from 2 to 40 mS/cm.
- 3. The plate-making method of a lithographic printing plate as claimed in Claim 1, wherein the nonionic surface active agent having a polyoxyalkylene ether group is a compound represented by the following formula (I):

$$R^{1}-O-(R^{2}-O)_{n} H$$
 (I)

wherein, R¹ represents an alkyl group having from 3 to 15 which may be substituted, carbon atoms an hydrocarbon group having from 6 to 15 carbon atoms which may be substituted or an aromatic heterocyclic group having from 4 to 15 carbon atoms which may be substituted, wherein the substituent includes an alkyl group having from 1 to 20 carbon atoms, a halogen atom such as bromine, chlorine or iodine, an aromatic hydrocarbon group having from 6 to 15 carbon atoms, an aralkyl group having from 7 to 17 carbon atoms, an alkoxy group having from 1 to 20 carbon atoms, an alkoxycarbonyl group having from 2 to 20 carbon atoms and an acyl group having from 2 to 15 carbon atoms; R2 represents an alkylene group having from 1 to 100 carbon atoms which may be substituted, wherein the substituent includes an alkyl group having from 1 to 20 carbon atoms and an aromatic hydrocarbon group having from 6 to 15 carbon atoms; and n represents an integer of from 1 to 100.

- 4. The plate-making method of a lithographic printing plate as claimed in Claim 1, wherein a content of the nonionic surface active agent having a polyoxyalkylene ether group is from 1 to 30% by weight in the developing solution.
- 5. The plate-making method of a lithographic printing plate as claimed in Claim 1, wherein the compound

having a nitrogen atom and an ethylenically unsaturated double bond is a urethane series addition-polymerizable compound prepared by utilizing an addition reaction of an isocyanate with a hydroxy group.

6. The plate-making method of а lithographic printing plate as claimed in Claim 1, wherein the compound having a nitrogen atom and an ethylenically unsaturated double bond is a vinyl urethane compound having at least two polymerizable vinyl groups in the molecule thereof obtained by subjecting addition of a vinyl monomer having a hydroxy group represented by formula (II) shown below with a polyisocyanate compound having least at isocyanato groups in the molecule thereof:

 $CH_2=C(R)COOCH_2CH(R')OH$ (II) wherein R and R', which may be the same or different, each

7. The plate-making method of a lithographic printing plate as claimed in Claim 1, wherein the compound having a nitrogen atom and an ethylenically unsaturated double bond is an amide of an unsaturated carboxylic acid with an aliphatic polyamine compound.

represents a hydrogen atom or a methyl group.

8. The plate-making method of a lithographic printing plate as claimed in Claim 1, wherein the compound having a nitrogen atom and an ethylenically unsaturated